

Application No. 09/808,224

Filed: March 14, 2001

Group Art Unit: 1645

Confirmation No.: 2803

AMENDMENTS TO THE SPECIFICATION

Applicant respectfully submits that the express mail number provided on page 1 of the specification beneath line 35 should be deleted. A marked-up copy of this amendment is provided herewith as a convenience to the Examiner.

PROCESS FOR IDENTIFYING CELL-SPECIFIC TARGET STRUCTURES**DESCRIPTION:**

5 The invention relates to a process for identifying cell-specific target structures.

 Identifying cell-specific target structures is crucial for elucidating cell-to-cell interactions which may cause countless effects within an organism.
10 Especially, knowing disease-specific target structures is a decisive prerequisite for developing effective drugs which at the same time only have few side effects.

 It is known from the prior art that immune cells (lymphocytes) will express specific combinations of
15 proteins, also referred to as protein combination patterns or, in short, PCP, which are responsible for binding to endothelioid cells of the blood vessels in the brain and in muscle tissue. Other protein combinations, however, will not result in any binding to
20 such endothelioid cells. Surprisingly, these specific combinations are inter-individually consistent, always exhibiting the same binding functions. Consequently, the specific protein combination patterns seem to be an inter-individually consistent lymphocyte binding code of
25 the cell surface for organ-specific endothelioid cell surfaces which represents a cell-specific target structure. Cell-specific target structures may thus exhibit quite specific protein combination patterns.

30 The surfaces of invasive tumor cells also exhibit specific protein combination patterns which will cause a well-aimed, i.e. organ-selective invasive behavior. For

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